

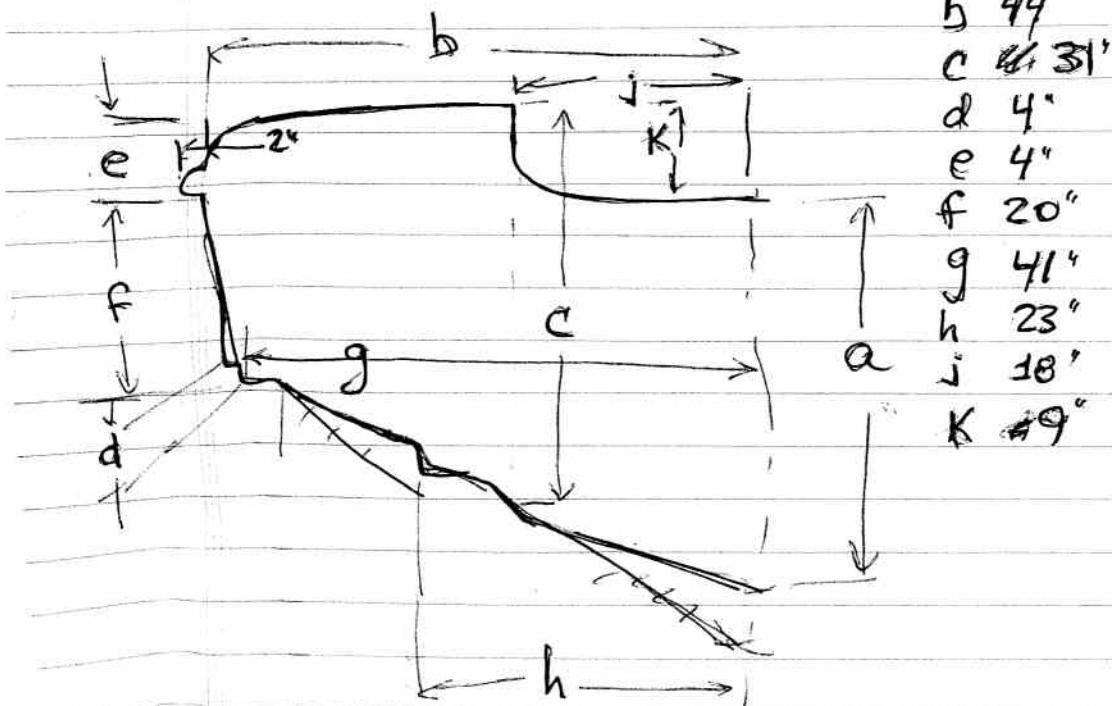
Re: Zhanna Chizhik vs. Sea Hunt, Inc., et als

**EXHIBIT No. 1**

4/25/05 Stoughton MA  
 Keel (1)

HIN SKSN0196H304  
 Sea Hunt Navigator 22

Transom



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Re: Zhanna Chizhik vs. Sea Hunt, Inc., et als

**EXHIBIT No. 2**

4/25/05 (RJD)

(2)

Profile from Port looking to stbd

Q 5"  
M 3½"Johnson 140  
4 stroke EFI  
Bombardier

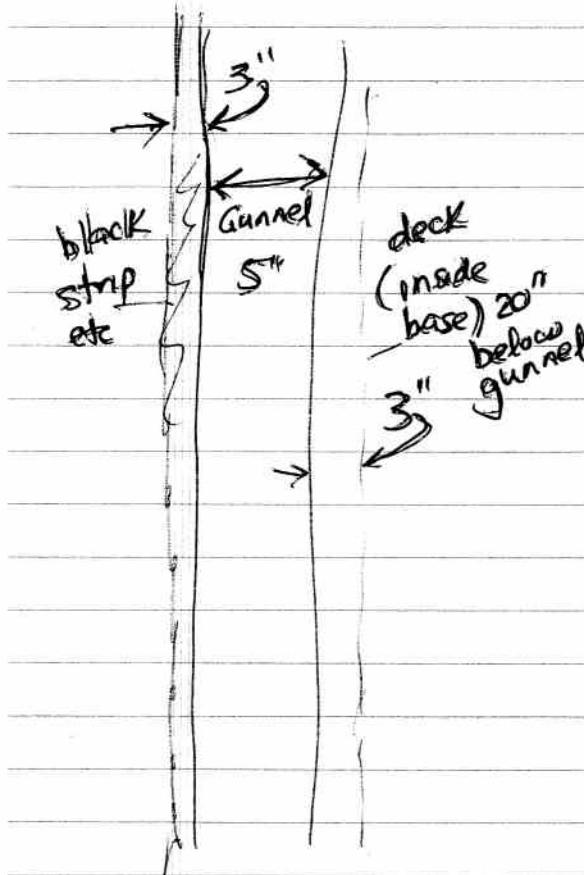
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Re: Zhanna Chizhik vs. Sea Hunt, Inc., et als

**EXHIBIT No. 3**4/25/05  
Kub  
(3)

Plan View



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**EXHIBIT No. 4**

4/25/05  
Kub(4)

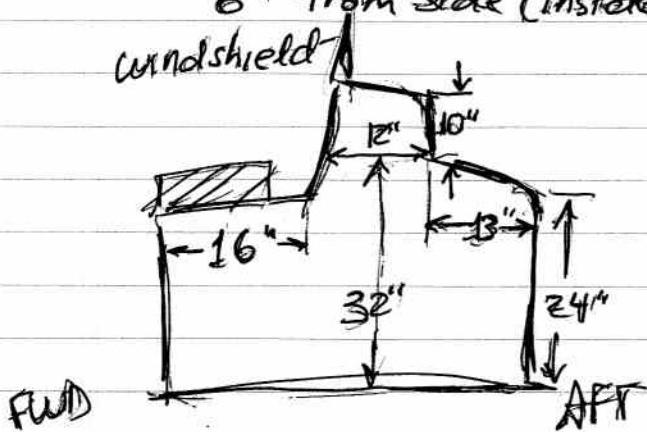
Max Cap'y  
7 Persons or 1050lbs  
2000lbs persons motor/gear  
Sea Hunt  
Boat Mfg Co, Inc  
Lexington SC 29072  
225 HP Motor Maximum

Deck Drain

1½" I.D.

6" from Side (inside)

Windshield

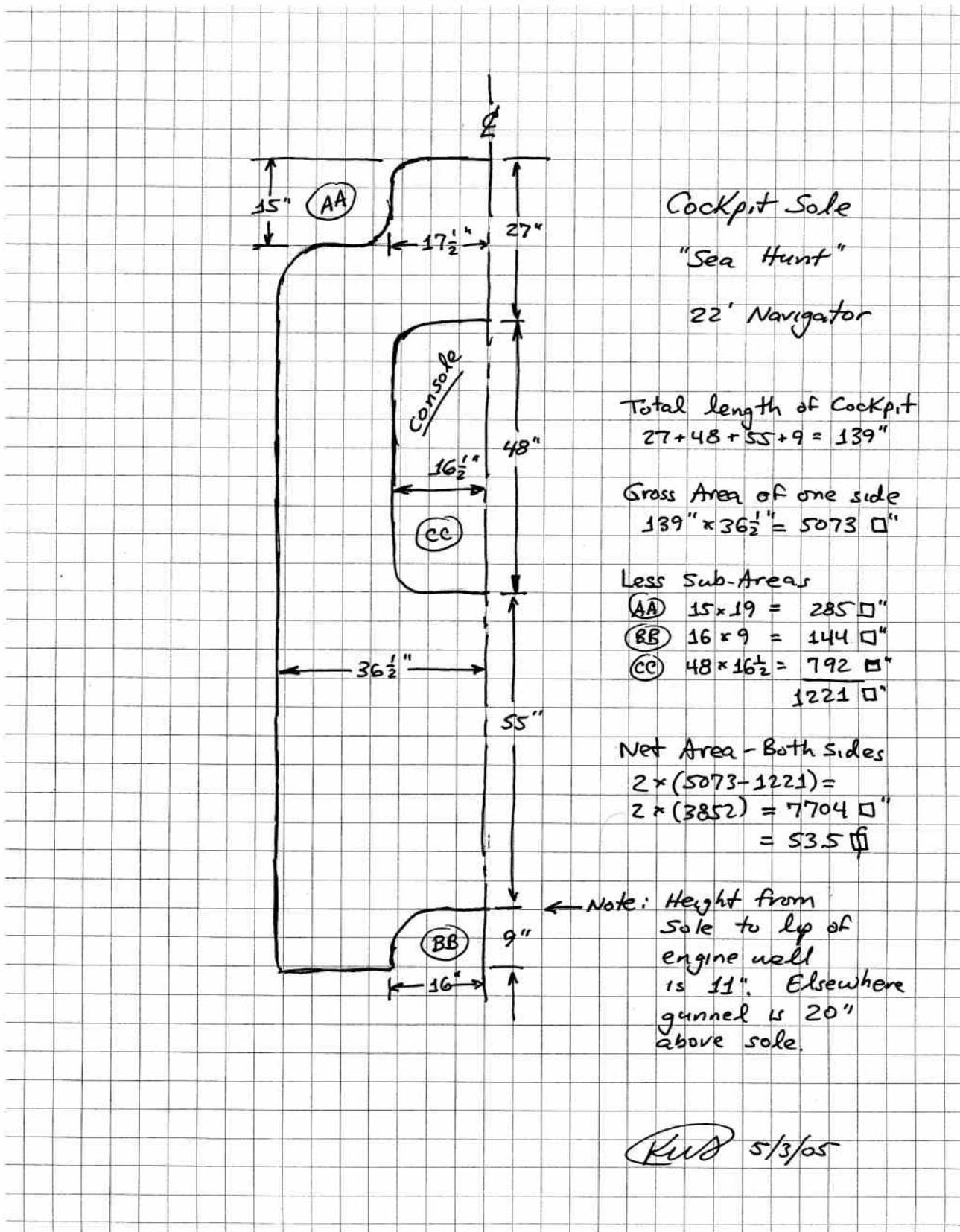


Center console

looking to starboard  
from port

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**EXHIBIT No. 5**

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**EXHIBIT No. 6**

Cockpit Drainage per ABYC H-4, 4.5.9

Area for Drainage =  $A$  in sq. in

$$\text{minimum} = 0.385 V_c / \sqrt{h}$$

$V_c$  = Volume of cockpit in cu. ft.

$h$  = cockpit depth (ft), 11" at engine cutout

$$V_c = (53.5) \times (11/12) = 49 \text{ cu ft.}$$

$$\sqrt{h} = \sqrt{11/12} = 0.957$$

$$A = (0.385)(49) / 0.957 = 28.7 \text{ in}^2$$

Diameter of each drain line

$D_n$  = min. diameter inches

$V_c$  = volume of cockpit in cu. ft. = 49 cu. ft.

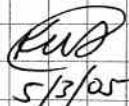
$h$  = cockpit depth =  $(11/12)'$

$n$  = number of drains = 2

$$\begin{aligned} D_n &= 0.7 \sqrt{\frac{V_c}{n\sqrt{h}}} = 0.7 \sqrt{\frac{(49)}{(2)(\sqrt{11/12})}} \\ &= 0.7 \sqrt{\frac{49}{2 \times 0.957}} \\ &= 0.7 \sqrt{25.6} = 0.7 \times 5.06 \\ &= 3.54" \end{aligned}$$

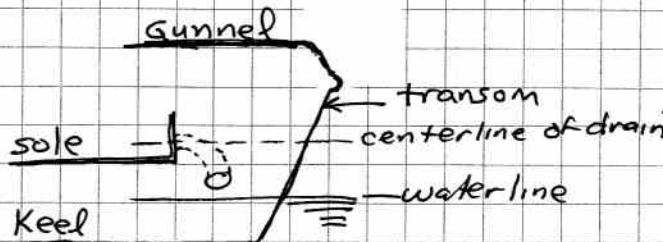
Actual Drainage is 2 hoses of  $1\frac{1}{2}$ " i.d. each

$$\text{Area} = 2 \times \pi r^2 = 2 \times \pi \times (0.75)(0.75) = 3.53 \text{ in}^2$$


  
5/3/05

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**EXHIBIT No. 7***Height of Deck Drains Above Waterline*

Measured: Centerline of deck drain is 1" above sole.

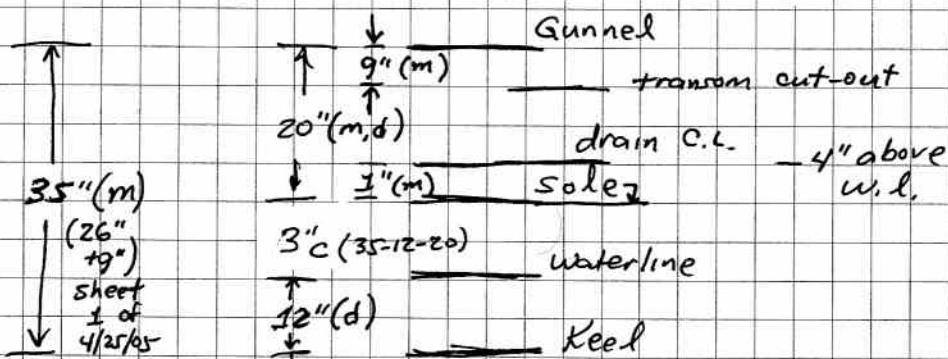
Height Keel to Gunnel = 35"

Mfr's Data: Inside depth (sole to gunnel) = 20"(m,d)

Draft (Keel to w.l.) = 12"(d)

Boat Length = 21'-6" = L<sub>h</sub> (m,d)

(m=measured, d=mfr's data, c=calculated)



Per ABYC H-4, 4.5, sole shall be minimum of this distance above waterline in inches

$$h_c = 0.22 L_h = (0.22)(21.5) = 4.73"$$

(but it is only 3")

*Kend* 5/3/04

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**EXHIBIT No. 8****Navigator 22 - Volume of Hull Below Cockpit**

- Use triangular areas as approximation at each station.
- Use Simpson's Multipliers to find volume
- Use dimensions of drawings in "mm".
- Then scale up to full size
- See attached drawings for illustration of triangular areas
- Simpson's Rule :  $(1-4-2-4 \dots 2-4-1) \text{ Times areas} \times \frac{s}{3}$   
where  $s = \text{spacing between stations.}$
- Multiply by 2 for both sides
- Allow permeability of 0.3

Station	$h = \text{height (mm)}$ Keel to sole	$w = \text{equ. width (mm)}$ per dwgs	Area at Station $(= \frac{1}{2} h.w)$	Simp'n multiplier	Area $\times s.m$
1	0	0	0	1	0
2	15	14	105	4	420
3	30	33	495	2	990
4	36	54	972	4	3888
5	36	71	1278	2	2556
6	36	87	1566	4	6264
7	36	95	1710	2	3420
8	35	106	1855	4	7420
9	34	106	1802	2	3604
10	34	109	1853	4	7412
11	33	109	1799	2	3597
12	33	109	1799	4	7194
13	32	109	1744	2	3488
14	31	109	1690	4	6758
15	31	109	1690	1	1690

$$\sum = 58,701$$

Station Spacing on dwg = 34 mm =  $s$ 

$$\text{Volume} = (\sum) \left( \frac{s}{3} \right) \times 2 = (58,701) \left( \frac{34}{3} \right) (2) = 1,330,556 (\text{cu.mm})$$

$$\text{Scale of dwg: } 8 \text{ ft} = 198 \text{ mm. Cu.Ft.} = \text{Vol(cu.m)} \times \left( \frac{8}{198} \right)^3$$

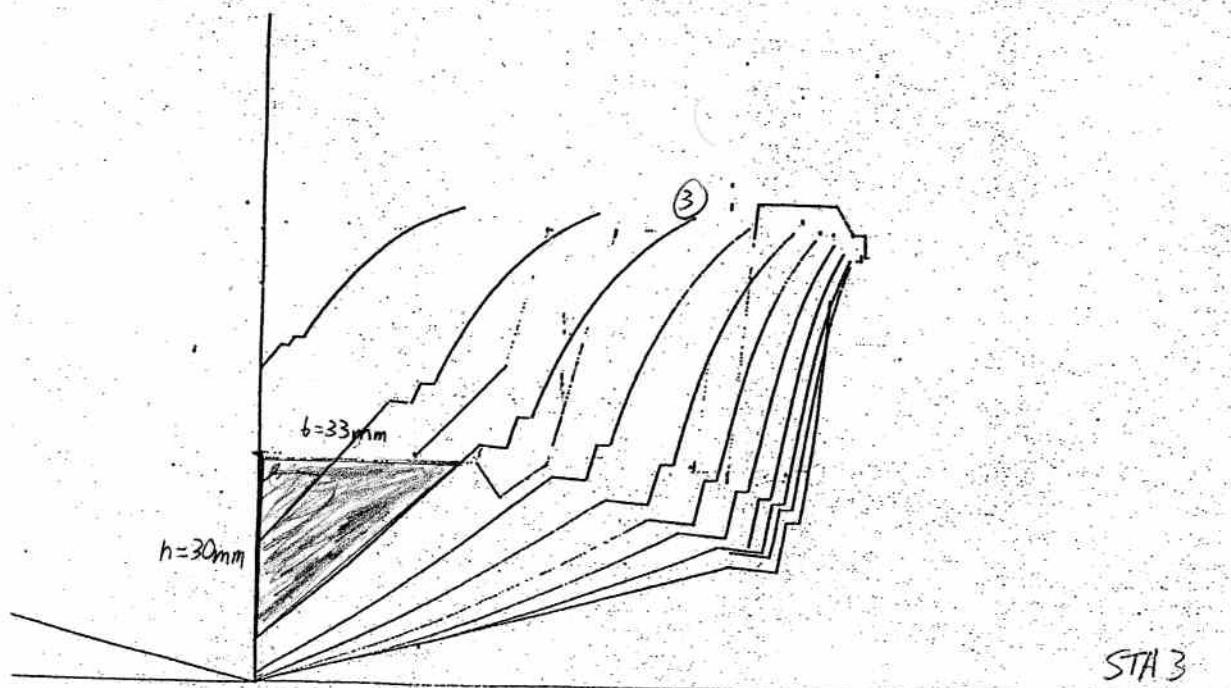
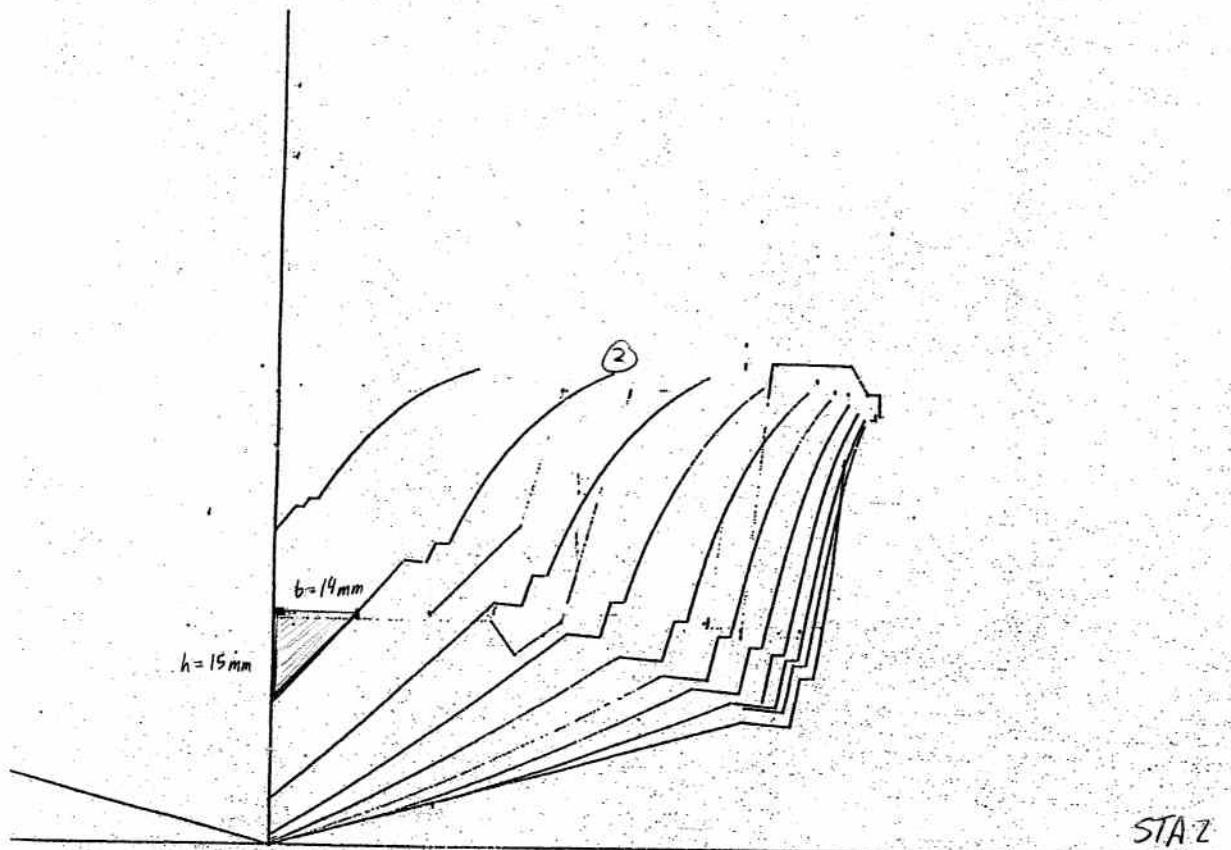
$$\approx 88 \text{ cu.ft. Gross}$$

KWD  
5/31/05

$$\text{Net Volume} = \text{Gross Volume} \times \text{Permeability} \approx 88 \times 0.3 \approx 26 \text{ cu.ft.}$$

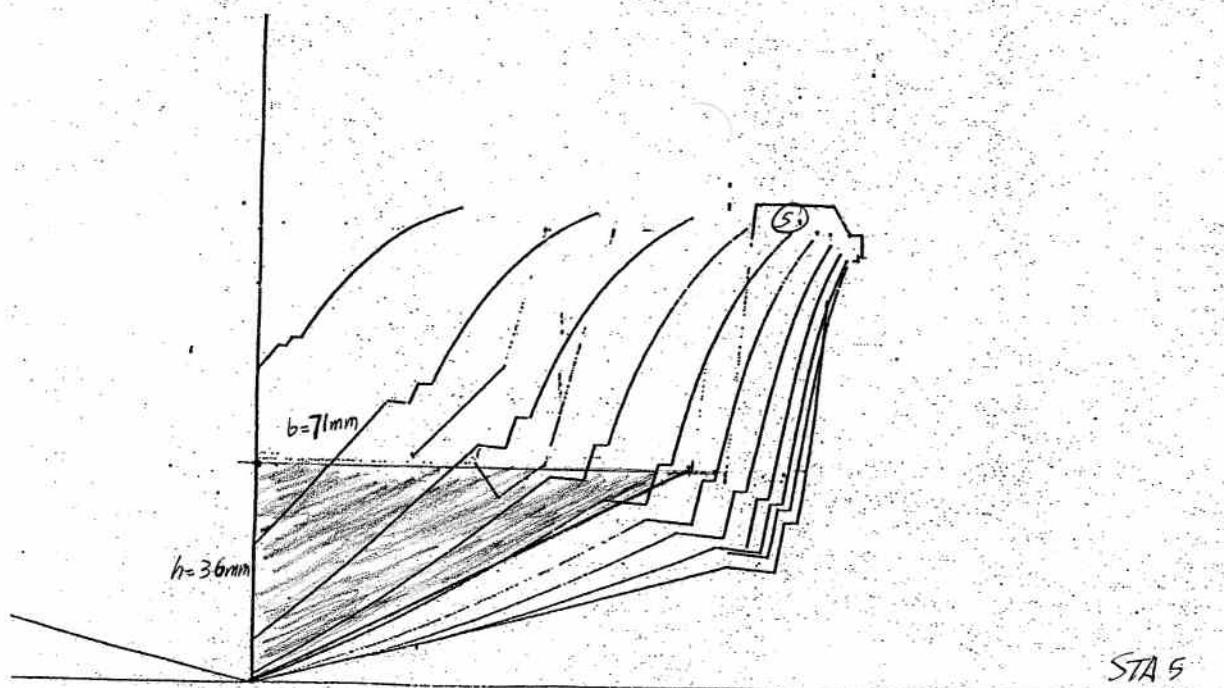
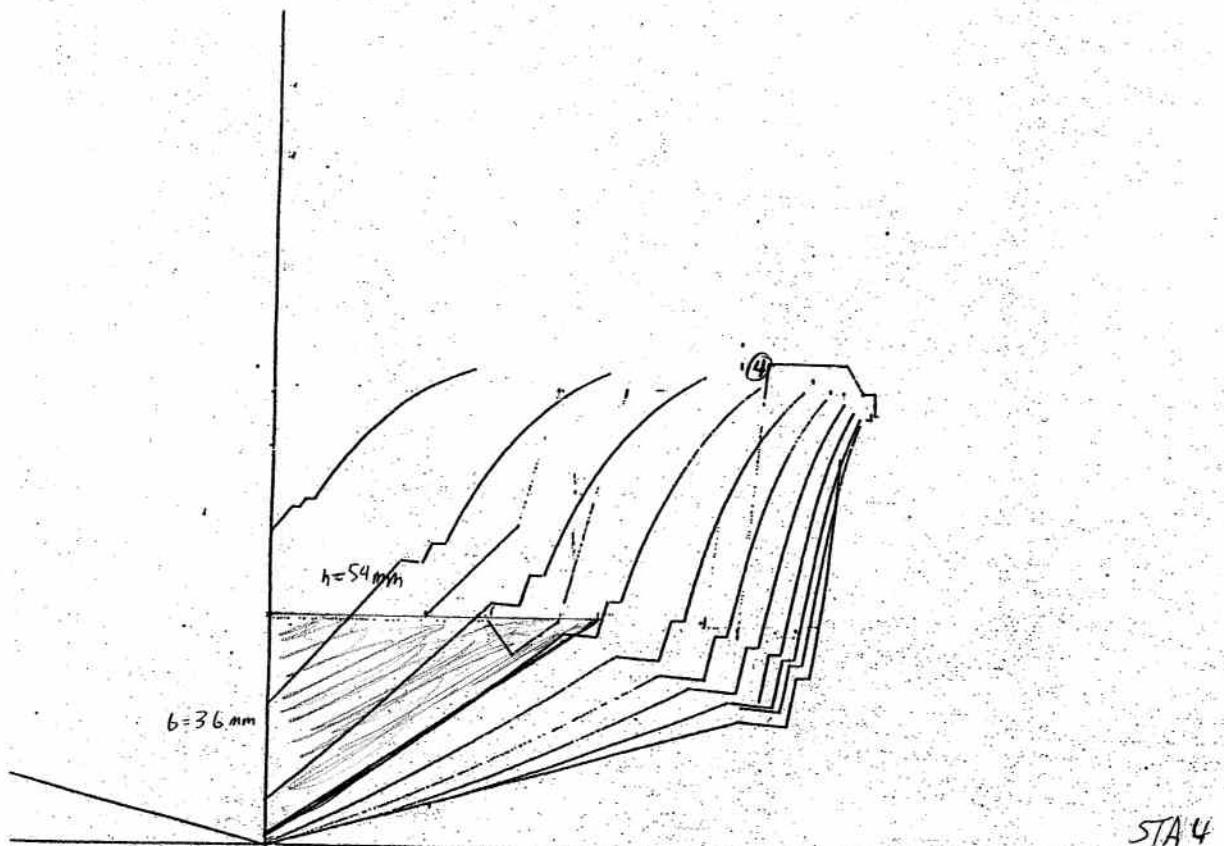
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Re: Zhanna Chizhik vs. Sea Hunt, Inc., et als

**EXHIBIT No. 9**S.K.g  
5/17/05

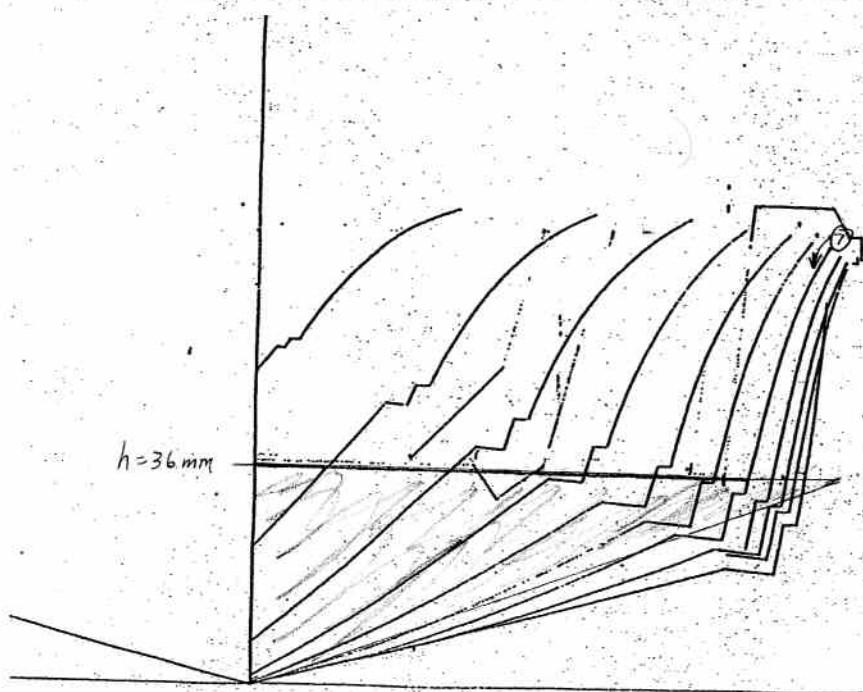
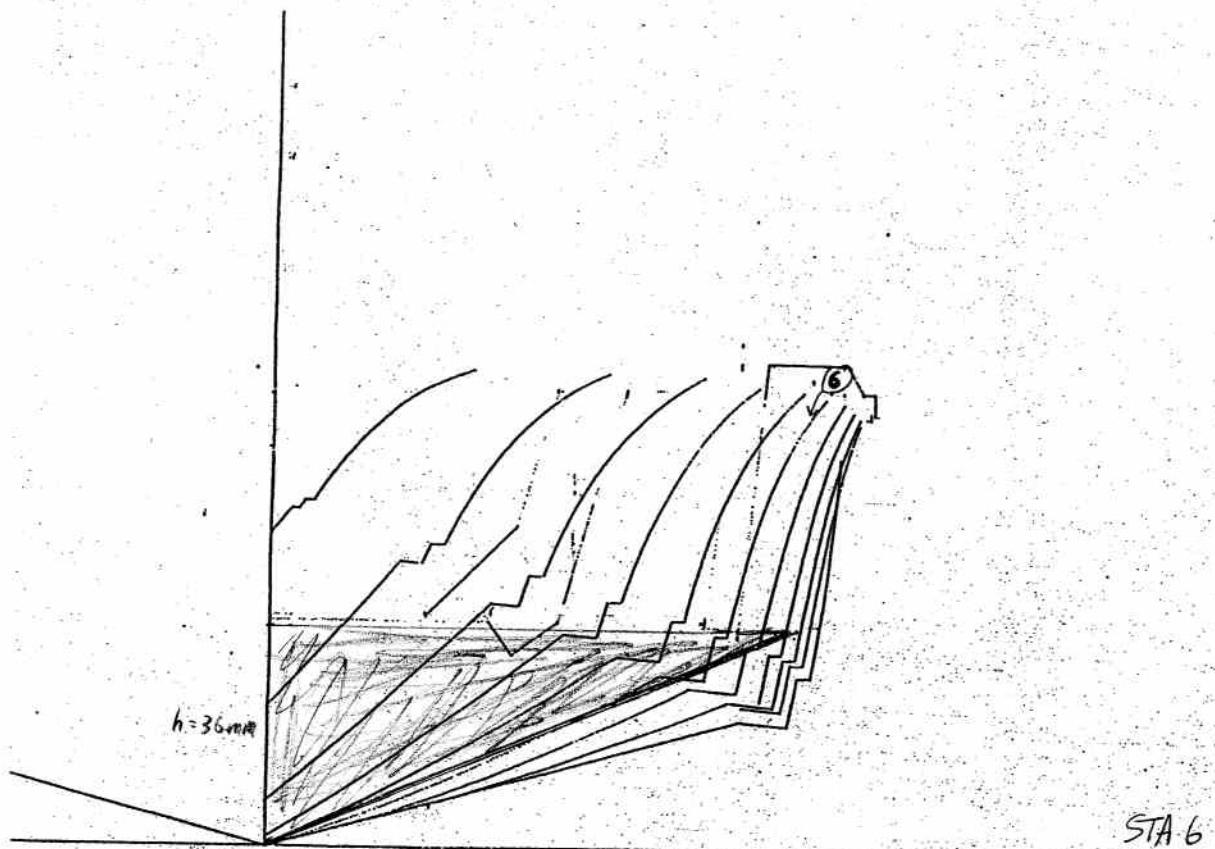
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Re: Zhanna Chizhik vs. Sea Hunt, Inc., et als

**EXHIBIT No. 10**S.K.g.  
5/17/05

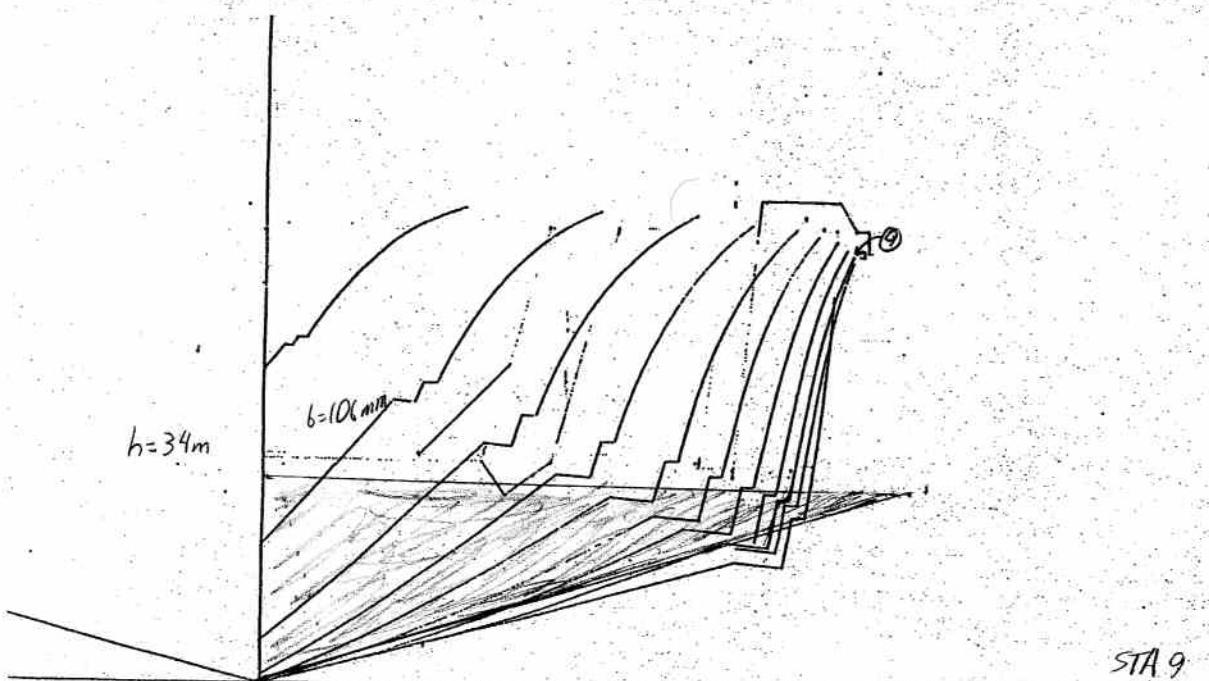
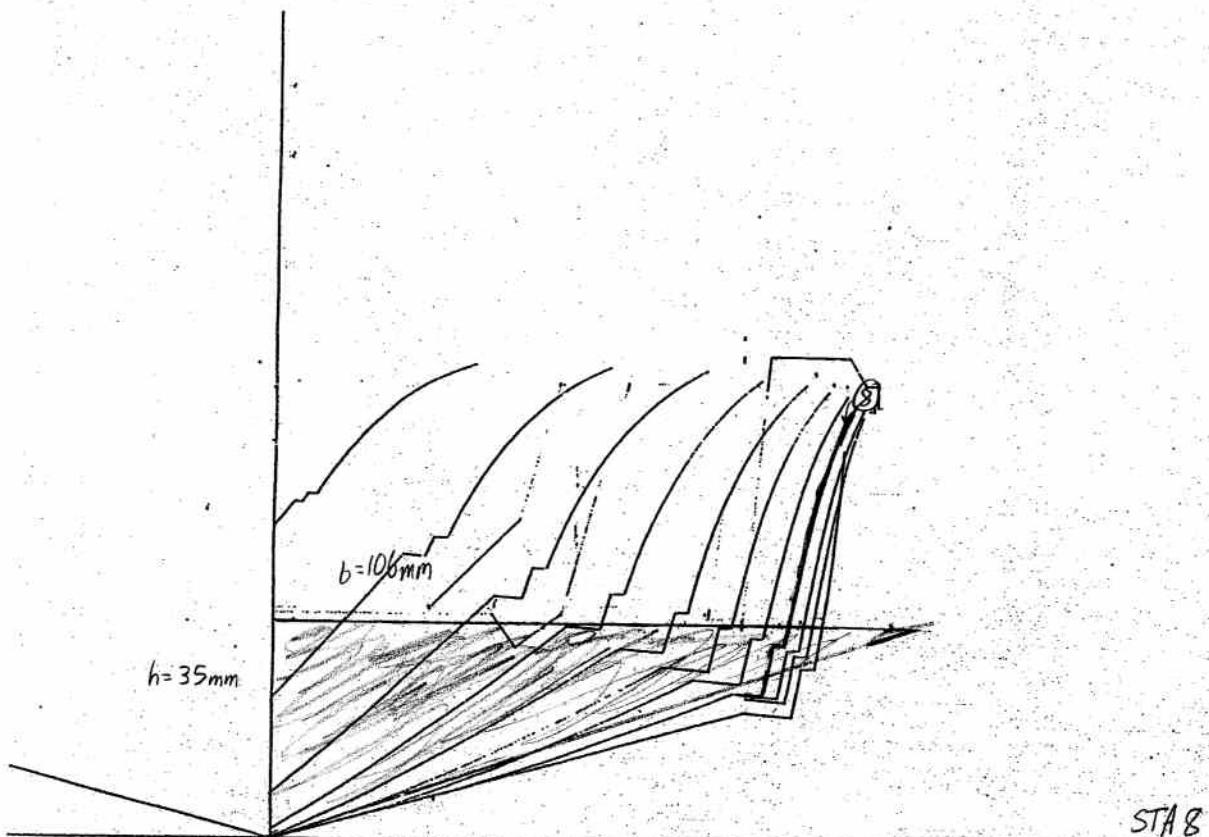
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Re: Zhanna Chizhik vs. Sea Hunt, Inc., et als

**EXHIBIT No. 11**S.K.g  
5/17/05

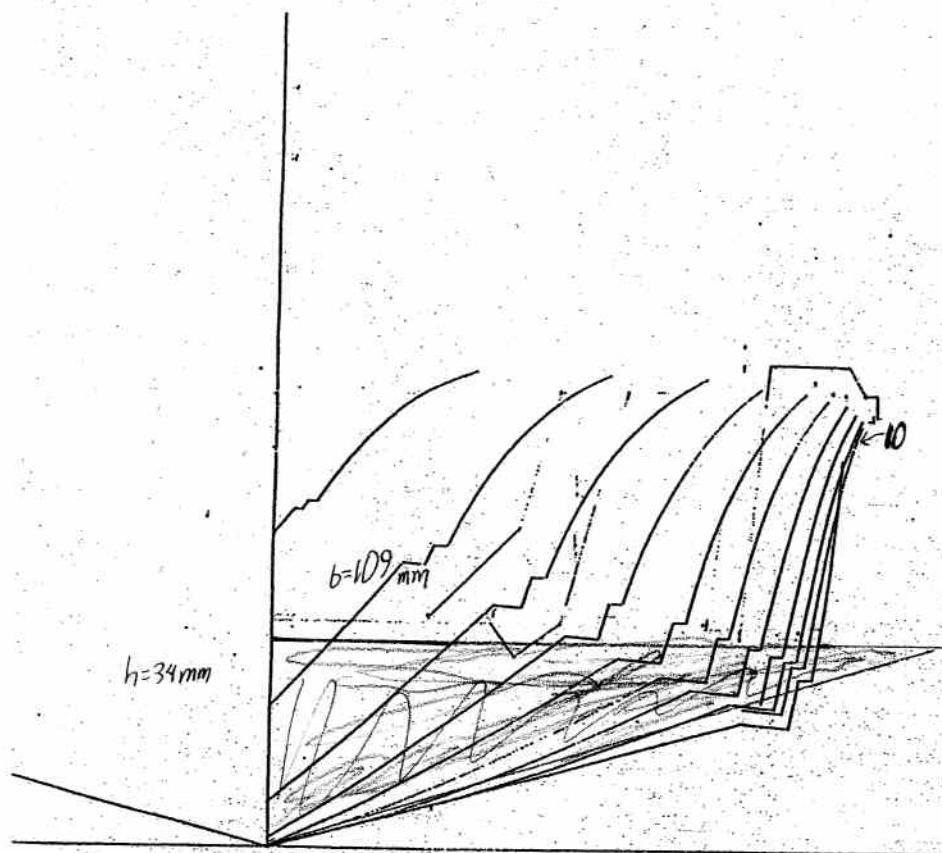
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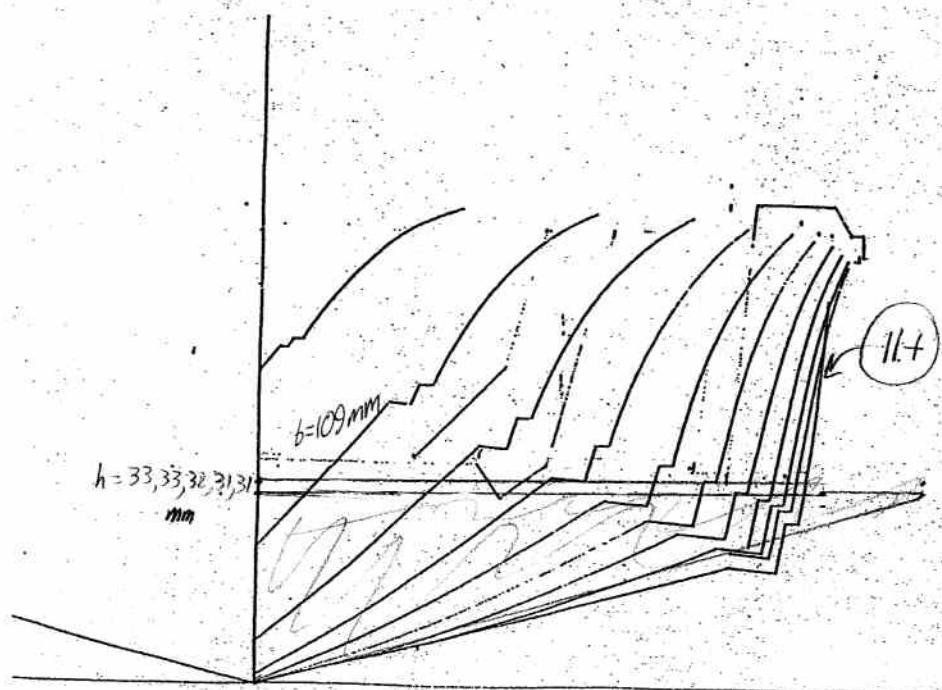
**EXHIBIT No. 12**S.K.G  
5/17/05

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Re: Zhanna Chizhik vs. Sea Hunt, Inc., et als

**EXHIBIT No. 13**S.K.G.  
5/11/05

STA 10



STA 11-15

Re: Zhanna Chizhik vs. Sea Hunt, Inc., et als

**APPENDIX page no. 14**

# The Fish Are Few and the Fishermen Fewer, but the Dory Will Not Die

By JAMES GORMAN

LUNENBERG, Nova Scotia — As long as I was in Nova Scotia, I went looking for dories, old-fashioned boats built on this island for cod fishing on the Grand Banks.

I hadn't come to Nova Scotia for dories. I was on the island to attend a meeting about tsunamis, and the drive from Halifax to Lunenberg was a side trip to indulge an interest in old wooden work boats.

The dory connection goes back a few years, when I started thinking about buying or building one of these sturdy high-sided fishing and work boats with a long history in the Northeast. A 15-foot dory can hold two men and 2,000 pounds of cod, and handle rougher seas than I would ever want to row in.

Dories were used up and down the Northeast coast for all sorts of fishing and work. The romance of a sturdy fisherman in rough seas is captured in Winslow Homer paintings, including "The Fog Warning." Those are halibut, not cod, in the boat, but the boat is a classic dory.

My fascination came from nostalgia and a distaste for modern technology on a grand and small scale, from factory-size trawlers that catch and freeze cod by the hundreds of tons, to jet skis and noisy outboard motors. Even worse are the electronic shadow versions of reality that distract from direct contact with the world.

Not that I or anyone else would use such a boat for its intended purpose. Any work boat is motorized today, and there aren't enough



In "The Fog Warning" by Winslow Homer, a lone fisherman rows his dory.

cod for fishing the Grand Banks. There are rowing and sailing dories around, used for fun, and often built in garages by amateurs.

In short, they are the technological equivalent of an endangered species that lives only in zoos, having lost its habitat. One old boat zoo is the Fisheries Museum of the Atlantic here. It has several sailing ships at the dock, and on the second floor, near a memorial room for fishermen lost at sea, a 15-

foot dory is set up with all its old tackle, including tubs of fishing line with multiple hooks, all pulled in by hand.

I would have spent some time poring over the boat even if there was nobody to talk about how it was used. But sitting next to it was Capt. Matthew Mitchell, whom the museum calls its "shore captain."

He started fishing for a living at age 14. In the 1930's, he said, cod fishermen were still